

**M 6.2, 13 km ESE of Iray, Peru**

Origin Time: 2023-12-20 12:11:22 UTC (Wed 07:11:22 local)  
Location: 15.8941° S 72.5080° W Depth: 101.3 km

**PAGER  
Version 5**

Created: 3 weeks, 1 day after earthquake

**Estimated Fatalities**

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

**Estimated Economic Losses**

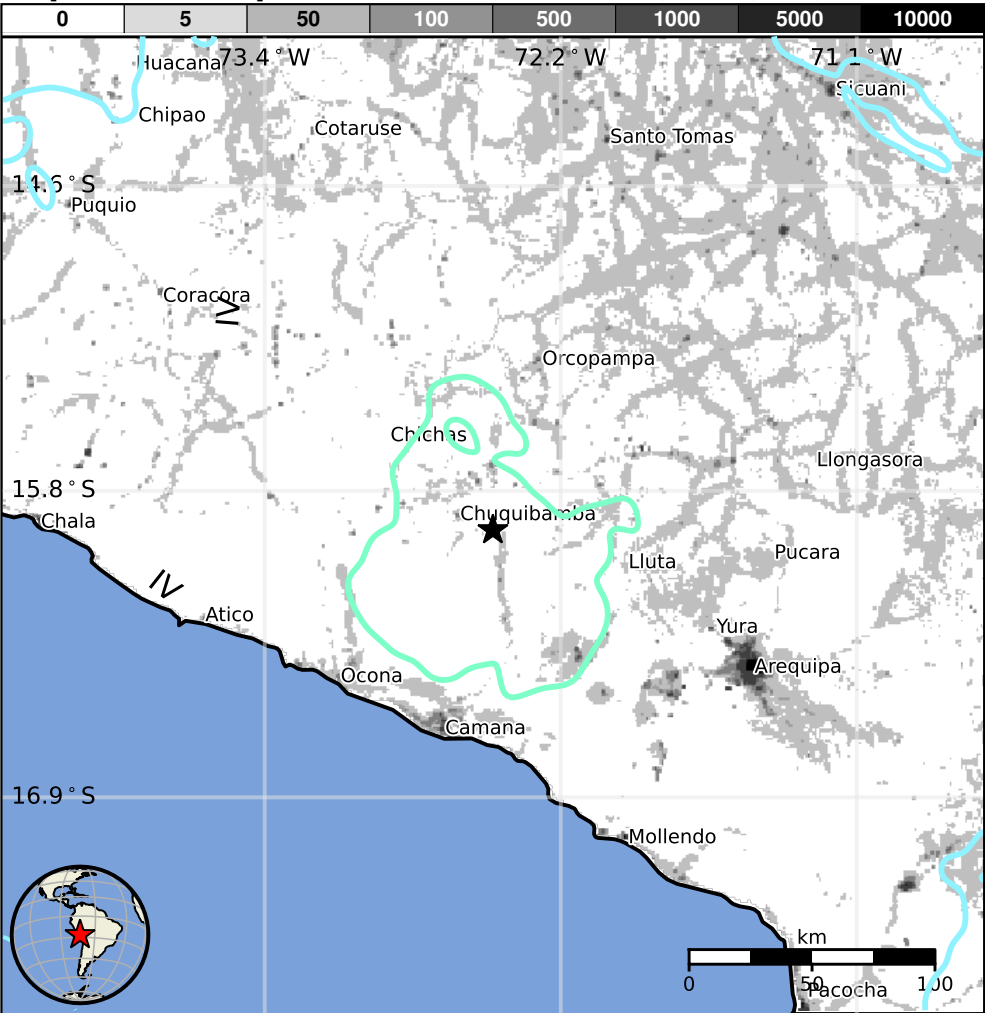


**Estimated Population Exposed to Earthquake Shaking**

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	33k*	2,122k	41k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

**Population Exposure**



**Structures**

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are mud wall and reinforced/confined masonry construction.

**Historical Earthquakes**

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2001-12-04	61	5.8	VI(32k)	2
1981-04-18	368	5.5	VI(193k)	8
2001-06-23	118	8.4	VIII(179k)	48

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

**Selected City Exposure**

from GeoNames.org

MMI	City	Population
V	Pampacolca	<1k
V	Corire	<1k
V	Huancarqui	<1k
V	Iray	<1k
V	Andaray	<1k
V	Chuquibamba	<1k
IV	Arequipa	841k
IV	Mollendo	29k
IV	Moquegua	55k
IV	Sicuani	34k
IV	Ilo	53k